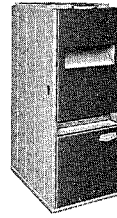


bryant

GAS FIRED UPFLOW FURNACE



Product Data Sheet **394U**
Size 80 Series B

PDS 394U.80.2 4/25/67

CLEARANCES FROM COMBUSTIBLES

In "large" rooms

- 6" from casing & vent hood
- 1" from sides & top of supply plenum

In confined spaces

- 0" from casing sides, rear & bottom
- 6" from casing front & type C vent connector
- 3" from top & sides of uninsulated supply plenum

SHIPPING WEIGHT

160 lbs.

STANDARD GAS CONTROL OPTIONS

Control Type	Gas	Description
D2	LPG	100% shut-off automatic pilot; Bryant diaphragm valve; transformer.
D4	City	Bryant diaphragm valve; Bryant automatic pilot; gas pressure regulator; transformer.
D5	City	100% shut-off for natural gas. Same as D4 except uses thermocouple pilot and pilot relay.

HEATING RATINGS AND CAPACITIES

Rating ¹	Input ²	BTUH	80,000 ³
	Output	BTUH	64,000

¹Ratings are for elevations up to 2000 ft.; for higher altitudes, reduce ratings 4% for each 1000 ft. above sea level.

²20% reduction in input allowed.

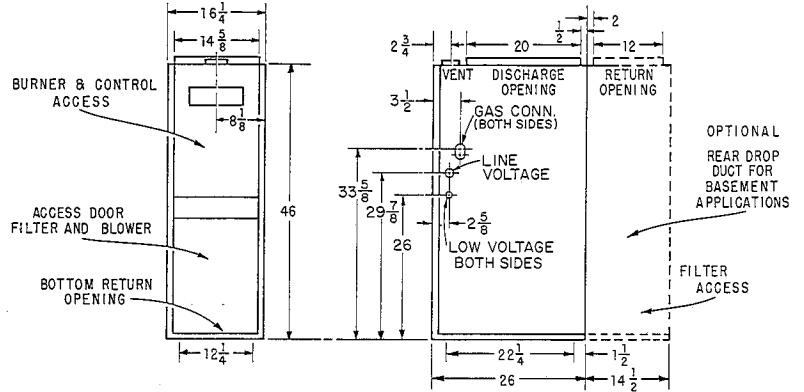
³For LP Gas, model designated 80-V-394, A.G.A. Input 75,000, Output 60,000.

COMPONENT INFORMATION

Motor—Type L or M—4 Speed	1/8 HP (Sh. Pole)
Power Supply	120-60-1
Full Load Amps	6.3
Speed & Rotation	1050 CCW*
Motor—Type E—4 Speed	1/4 HP (PSC)
Power Supply	120-60-1
Full Load Amps	5.4
Speed & Rotation	1075 CCW*
Blower Wheel Dia. & Width	10" x 6"
Bore—Direct Drive	1/2"
Filter—Fiberglass**	
Inlet At Bottom	14" x 25" x 1"
External Filter Rack	14" x 25" x 1"
Internal Side Filter	14" x 25" x 1"
Rear Drop Duct	14" x 25" x 1"

*Rotation viewed from end opposite shaft

**Use multi-velocity filters above 875 CFM.



DRIVE TYPES

- L—Multi-speed direct drive heating—minimum cooling
- M—Multi-speed direct drive heating—minimum cooling with evaporator blower motor relay
- E—Multi-speed direct drive heating—maximum cooling with evaporator blower motor relay

CONNECTIONS

Gas Supply NPT	Natural Gas	1/2"
	Propane	1/2"
Electric Supply—Direct Drive		120-60-1
Branch Circuit Wire Size	AWG	14
Fuse Size	AMPS	15
Control Circuit Power Avail.*		
Type L	KA	10.8
Type M or E		7.2
Flue Size	Inches	4 (Oval)
Duct—Inlet at bottom	D x W	22 1/4 x 12 1/4
Inlet ext. filter rack	H x W	12 x 23
Inlet drop duct	D x W	12 x 14 1/2
Discharge	D x W	20 x 14 1/2

*External to unit

CONTROL INFORMATION

Burners (Steel Slotted Port)	3	
Orifice Drill Size Prop.	54	
	Nat.	40
D2 Control (Prop.) Regulator	None Required	
Valve	1/2 A641	
Escapement Orifice Drill Size	80	
Pilot—MH Q314A	.011 Orifice	
D4 Control (Nat.) Regulator	Comb. Thermac 1/2 VR-1	
Valve	1/2 A641	
Escapement Orifice Drill Size	80	
Pilot—732	.016 Orifice	
D5 Control (Nat.) Regulator	Comb. Thermac 1/2 VR-1	
Valve	1/2 A641	
Escapement Orifice Drill Size	80	
Pilot—MH Q314A	.018 Orifice	

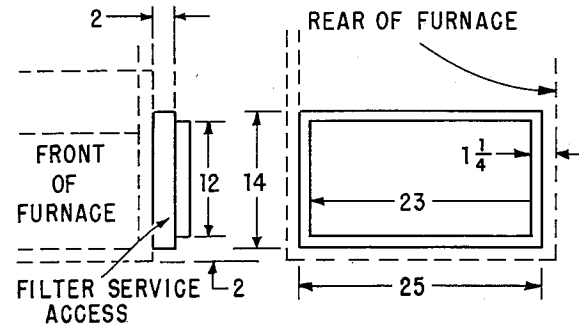
Manual Shut-off Cock and Pilot Cock are standard equipment. Supplied as separate parts except where included as integral part of the combination regulator.

**Optional External Filter Rack
Mounts on Either Side**

AIR FLOW FOR INDICATED AIR TEMPERATURE RISE*

TEMP RISE °F	70	75	80	85	90	95	100
AIR FLOW CFM	795	741	695	654	618	585	556

*At Rated Input

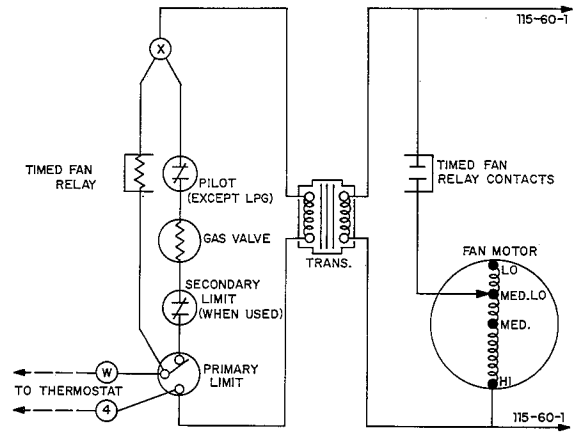


AIR DELIVERY PERFORMANCE†

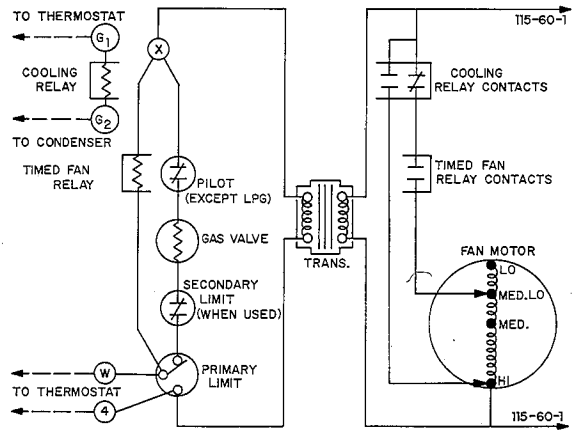
Air Delivery CFM	EXTERNAL STATIC PRESSURE AVAILABLE							
	Type L or M Motor				Type E Motor			
	Hi	Med	Med-Lo	Lo	Hi	Med	Med-Lo	Lo
500	.88	.78	.70	.58				.77
600	.76	.65	.52	.06				.61
700	.63	.47						.78
800	.48							.60
900	.16					.74		.33
1000					.76	.58		
1100					.63	.38		
1200					.46	.14		
1300					.27			
1400					.07			

†Above data gives Cfm under typical field applications (i.e. 125 volts).

**LINE-TO-LINE SCHEMATIC
UNIT WIRING DIAGRAMS**



Type L



Types M or E